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**RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/936,657**

DATE: 02/02/2000  
TIME: 16:00:12

### **INPUT SET: S30066.raw**

**This Raw Listing contains the General Information Section and up to the first 5 pages.**

1 SEQUENCE LISTING

3 (1) General Information:

**ENTERED**

6 (i) APPLICANT: Fritz Eckstein  
7 Wolfgang Pieken  
8 Fritz Benseler  
9 David Olsen  
10 David Williams

13  
14 (ii) TITLE OF INVENTION: MODIFIED RIBOZYMES

17 (iii) NUMBER OF SEQUENCES: 15

20 (iv) CORRESPONDENCE ADDRESS:

22 (A) ADDRESSEE: Lyon & Lyon  
23 (B) STREET: 633 West Fifth Street  
24 Suite 4700  
25 (C) CITY: Los Angeles  
26 (D) STATE: California  
27 (E) COUNTRY: U.S.A.  
28 (F) ZIP: 90071

31 (v) COMPUTER READABLE FORM:

33 (A) MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
34 storage  
35 (B) COMPUTER: IBM Compatible  
36 (C) OPERATING SYSTEM: IBM P.C. DOS 5.0  
37 (D) SOFTWARE: FastSEO Version 1.5

40 (vi) CURRENT APPLICATION DATA:

42 (A) APPLICATION NUMBER: 08/936,657  
43 (B) FILING DATE:

46 (vii) PRIOR APPLICATION DATA:

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47  
48           (A) APPLICATION NUMBER: 07/965,411  
49           (B) FILING DATE: August 9, 1993  
50

## 51       (viii) ATTORNEY/AGENT INFORMATION:

52  
53  
54           (A) NAME: Warburg, Richard  
55           (B) REGISTRATION NUMBER: 32,327  
56           (C) REFERENCE/DOCKET NUMBER: 195/036  
57

## 58       (ix) TELECOMMUNICATION INFORMATION:

59  
60           (A) TELEPHONE: (213) 489-1600  
61           (B) TELEFAX: (213) 955-0440  
62           (C) TELEX: 67-3510  
63

64

65

66

67

68

## 69       (2) INFORMATION FOR SEQ ID NO: 1:

70

## 71       (i) SEQUENCE CHARACTERISTICS:

72  
73           (A) LENGTH: 32  
74           (B) TYPE: nucleic acid  
75           (C) STRANDEDNESS: single  
76           (D) TOPOLOGY: linear  
77

## 78       (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

79

80 GATATCCTGA CTCCCTATAG TGAGTCGTAT TA           32

81

82

83

84

## 85       (2) INFORMATION FOR SEQ ID NO: 2:

86

## 87       (i) SEQUENCE CHARACTERISTICS:

88  
89           (A) LENGTH: 36  
90           (B) TYPE: nucleic acid  
91           (C) STRANDEDNESS: single  
92           (D) TOPOLOGY: linear  
93

## 94       (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

95

96 TAATACGACT CACTATAGGG AGTCAGGATA TCTGCA           36

97

98

99

**RAW SEQUENCE LISTING  
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100  
101 (2) INFORMATION FOR SEQ ID NO: 3:  
102  
103 (i) SEQUENCE CHARACTERISTICS:  
104  
105 (A) LENGTH: 51  
106 (B) TYPE: nucleic acid  
107 (C) STRANDEDNESS: single  
108 (D) TOPOLOGY: linear  
109  
110 (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 3:  
111  
112 GGAGTTTCGG CCTAACGGCC TCATCAGAGG ACCCTATAGT GAGTCGTATT A 51  
113  
114  
115  
116 (2) INFORMATION FOR SEQ ID NO: 4:  
117  
118 (i) SEQUENCE CHARACTERISTICS:  
119  
120 (A) LENGTH: 55  
121 (B) TYPE: nucleic acid  
122 (C) STRANDEDNESS: single  
123 (D) TOPOLOGY: linear  
124  
125 (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 4:  
126  
127 TAATACGACT CACTATAGGG TCCTCTGATG AGGCCGTTAG GCCGAAACTC CTGCA 55  
128  
129  
130  
131  
132  
133  
134 (2) INFORMATION FOR SEQ ID NO: 5:  
135  
136 (i) SEQUENCE CHARACTERISTICS:  
137  
138 (A) LENGTH: 34  
139 (B) TYPE: nucleic acid  
140 (C) STRANDEDNESS: single  
141 (D) TOPOLOGY: linear  
142  
143 (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 5:  
144  
145 GGGUCCUCUG AUGAGGCCGU UAGGCCGAAA CUCC 34  
146  
147  
148  
149  
150 (2) INFORMATION FOR SEQ ID NO: 6:  
151  
152 (i) SEQUENCE CHARACTERISTICS:

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153 (A) LENGTH: 34  
154 (B) TYPE: nucleic acid  
155 (C) STRANDEDNESS: single  
156 (D) TOPOLOGY: linear  
157  
158  
159 (ix) FEATURE:  
160  
161 (D) OTHER INFORMATION: The letter "N" stands for  
162 2'-fluorouridine.  
163  
164 (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 6:  
165  
166 GGGNCCNCNG ANGAGGCCGN NAGGCCGAAA CNCC  
167  
168  
169  
170 (2) INFORMATION FOR SEQ ID NO: 7:  
171  
172 (i) SEQUENCE CHARACTERISTICS:  
173  
174 (A) LENGTH: 34  
175 (B) TYPE: nucleic acid  
176 (C) STRANDEDNESS: single  
177 (D) TOPOLOGY: linear  
178  
179 (ix) FEATURE:  
180  
181 (D) OTHER INFORMATION: The letter "N" stands for  
182 2'-aminouridine.  
183  
184 (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 7:  
185  
186 GGGNCCNCNG ANGAGGCCGN NAGGCCGAAA CNCC  
187  
188  
189  
190 (2) INFORMATION FOR SEQ ID NO: 8:  
191  
192 (i) SEQUENCE CHARACTERISTICS:  
193  
194 (A) LENGTH: 12  
195 (B) TYPE: nucleic acid  
196 (C) STRANDEDNESS: single  
197 (D) TOPOLOGY: linear  
198  
199 (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 8:  
200  
201 GGGAGUCAGG AU  
202  
203  
204  
205 (2) INFORMATION FOR SEQ ID NO: 9:

**RAW SEQUENCE LISTING  
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206

## (i) SEQUENCE CHARACTERISTICS:

208

(A) LENGTH: 12  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

213

## (ix) FEATURE:

215

(D) OTHER INFORMATION: The letter "N" stands for  
2'-fluorouridine.

218

219

## (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 9:

220

221 GGGAGNCAGG AN

12

222

223

224

225 (2) INFORMATION FOR SEQ ID NO: 10:

226

227

## (i) SEQUENCE CHARACTERISTICS:

228

(A) LENGTH: 12  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

233

## (ix) FEATURE:

235

(D) OTHER INFORMATION: The letter "N" stands for  
2'-fluorocytidine.

238

239

## (ii) SEQUENCE DESCRIPTION: SEQ ID NO: 10:

240

241

GGGAGUNAGG AU

12

242

243

244

245

246

(2) INFORMATION FOR SEQ ID NO: 11:

247

248

## (i) SEQUENCE CHARACTERISTICS:

249

(A) LENGTH: 12  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

254

255

## (ix) FEATURE:

256

257

(D) OTHER INFORMATION: The letter "N" stands for  
2'-aminouridine.

258

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**SEQUENCE VERIFICATION REPORT  
PATENT APPLICATION US/08/936,657**

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***INPUT SET: S30066.raw***

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